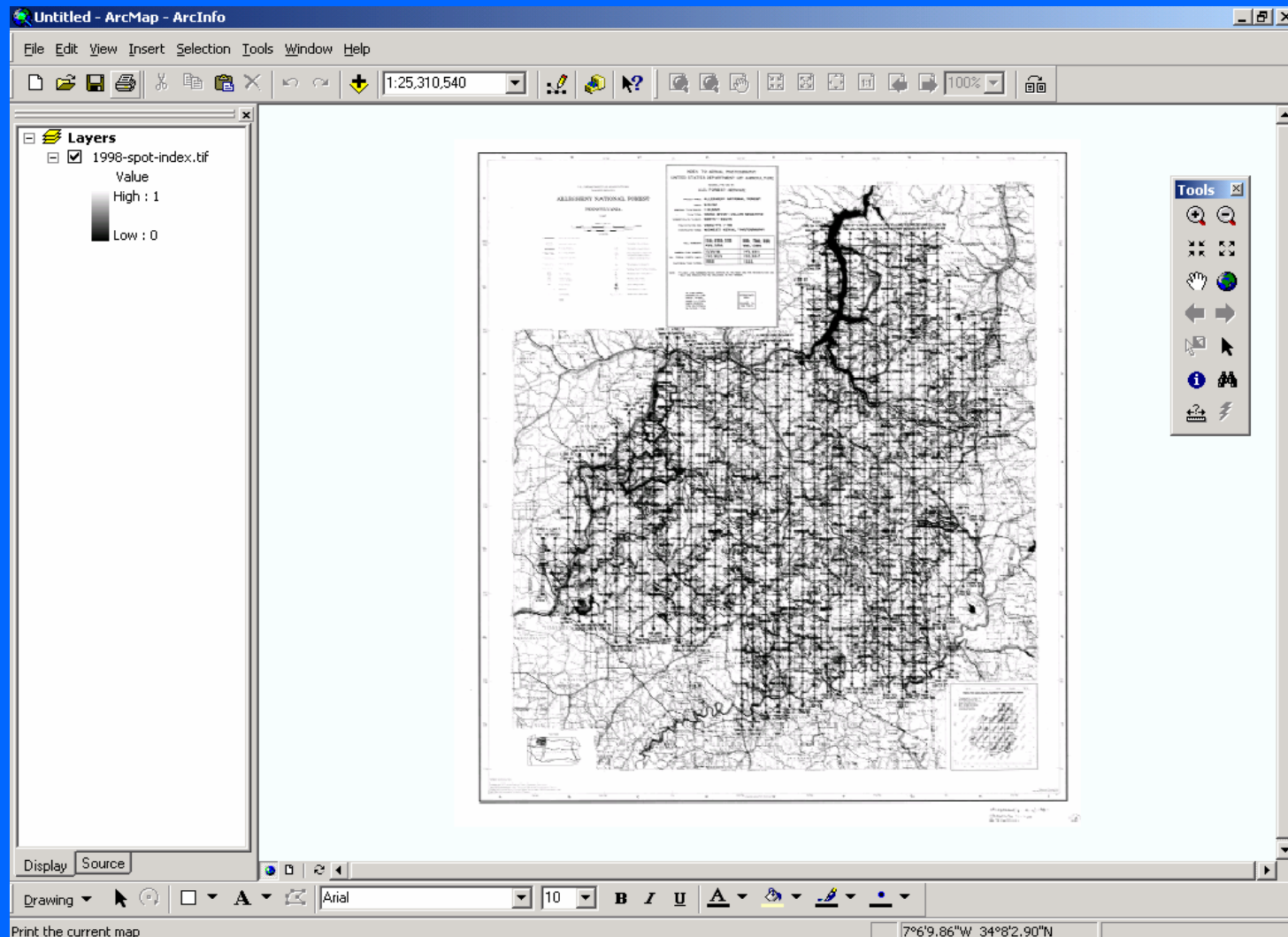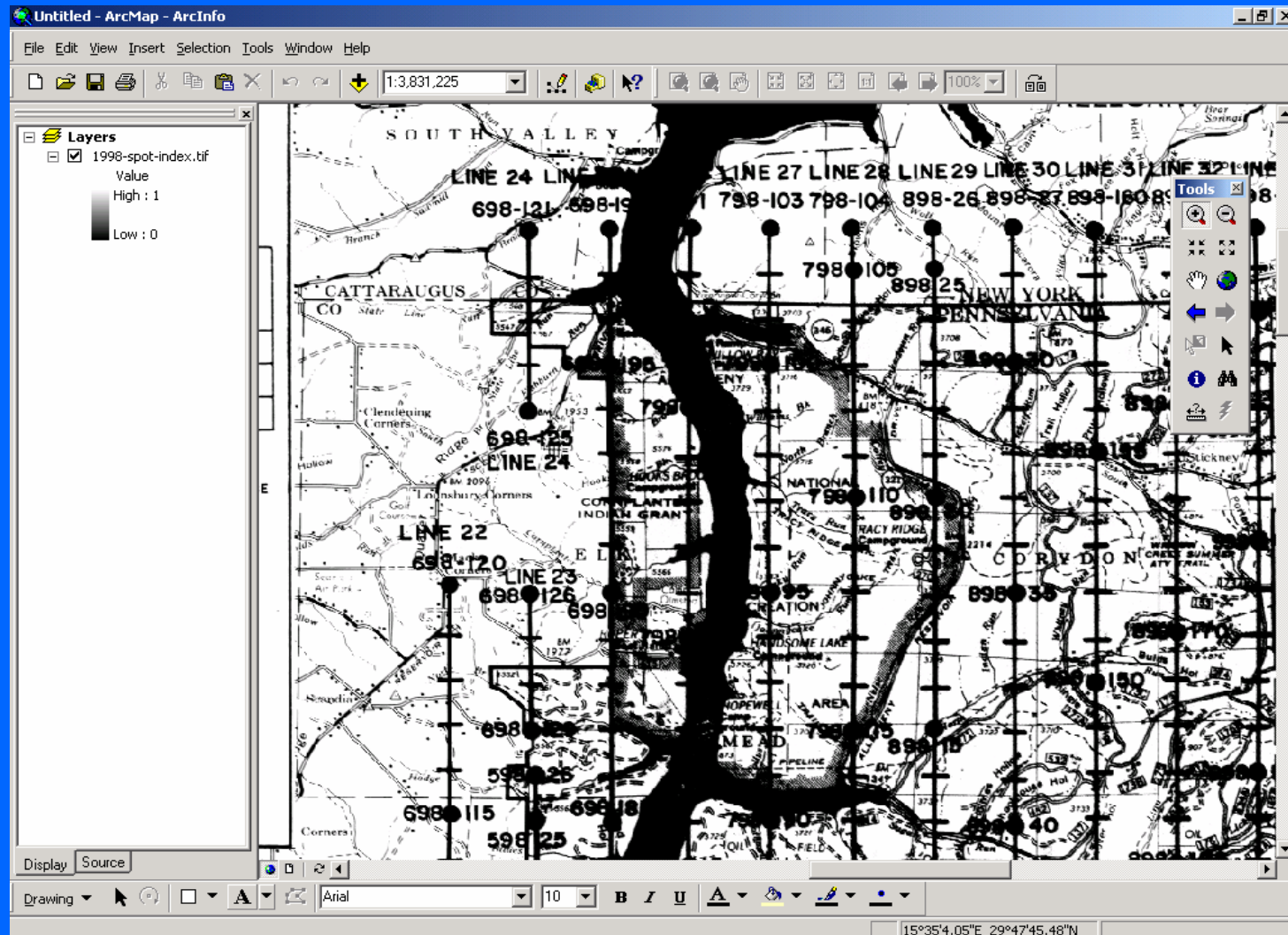# Forest Service Eastern Region Spot Index Digitizing Project

Moving Spot Indexes to GIS

Source data manuscript

Closer look at the source data

Check the condition of the coverage using the ArcGIS "DESCRIBE" command

Arc: describe allegh1998_99

```
FEATURE CLASSES

                                     Number of   Attribute       Spatial
Feature Class          Subclass      Features    data (bytes)    Index?    Topology?
-------------          --------      ---------   ------------    -------   ---------
POINTS                                   1723        78          Yes


                              SECONDARY FEATURES
Tics                                      4


                                   TOLERANCES
Fuzzy   =                9.963 N        Dangle   =                     0.000 N


                              COVERAGE BOUNDARY
Xmin =            617086.176            Xmax =                704087.288
Ymin =           4564755.159            Ymax =               4664383.740


                                    STATUS
The coverage has not been Edited since the last BUILD or CLEAN.


                         COORDINATE SYSTEM DESCRIPTION

Projection              UTM
Zone                    17
Datum                   NAD27
Units                   METERS          Spheroid              CLARKE1866
Parameters:
```

Identify the attributes attached to the points using the ArcGIS "ITEMS" command

Arc: items allegh1998_99.pat

COLUMN	ITEM NAME	WIDTH	OUTPUT	TYPE	N.DEC	ALTERNATE NAME	INDEXED?
1	AREA	8	18	F	5		-
9	PERIMETER	8	18	F	5		-
17	ALLEGH1998_99#	4	5	B	-		-
21	ALLEGH1998_99-ID	4	5	B	-		-
25	FLT	3	3	I	-		-
28	ROLL	4	4	I	-		-
32	FRAME	3	3	I	-		-
35	LABEL	8	8	C	-		-
43	PROJECT	8	8	C	-		-
51	DATE	16	16	C	-		-
67	SCALE	6	6	I	-		-
73	YEAR	4	4	I	-		-
77	SPOT	1	1	C	-		-

Examine what a record of data looks like using the ArcGIS "LIST" command

Arc: list allegh1998_99.pat

```
AREA                          =                 0.00000
PERIMETER                     =                 0.00000
ALLEGH1998_99#                =      1
ALLEGH1998_99-ID              =      1
FLT                           =   1
ROLL                          =   198
FRAME                         =   21
LABEL                         = 198-21
PROJECT                       = 619190
DATE                          =
SCALE                         =   12000
YEAR                          = 1998
SPOT                          = D
```
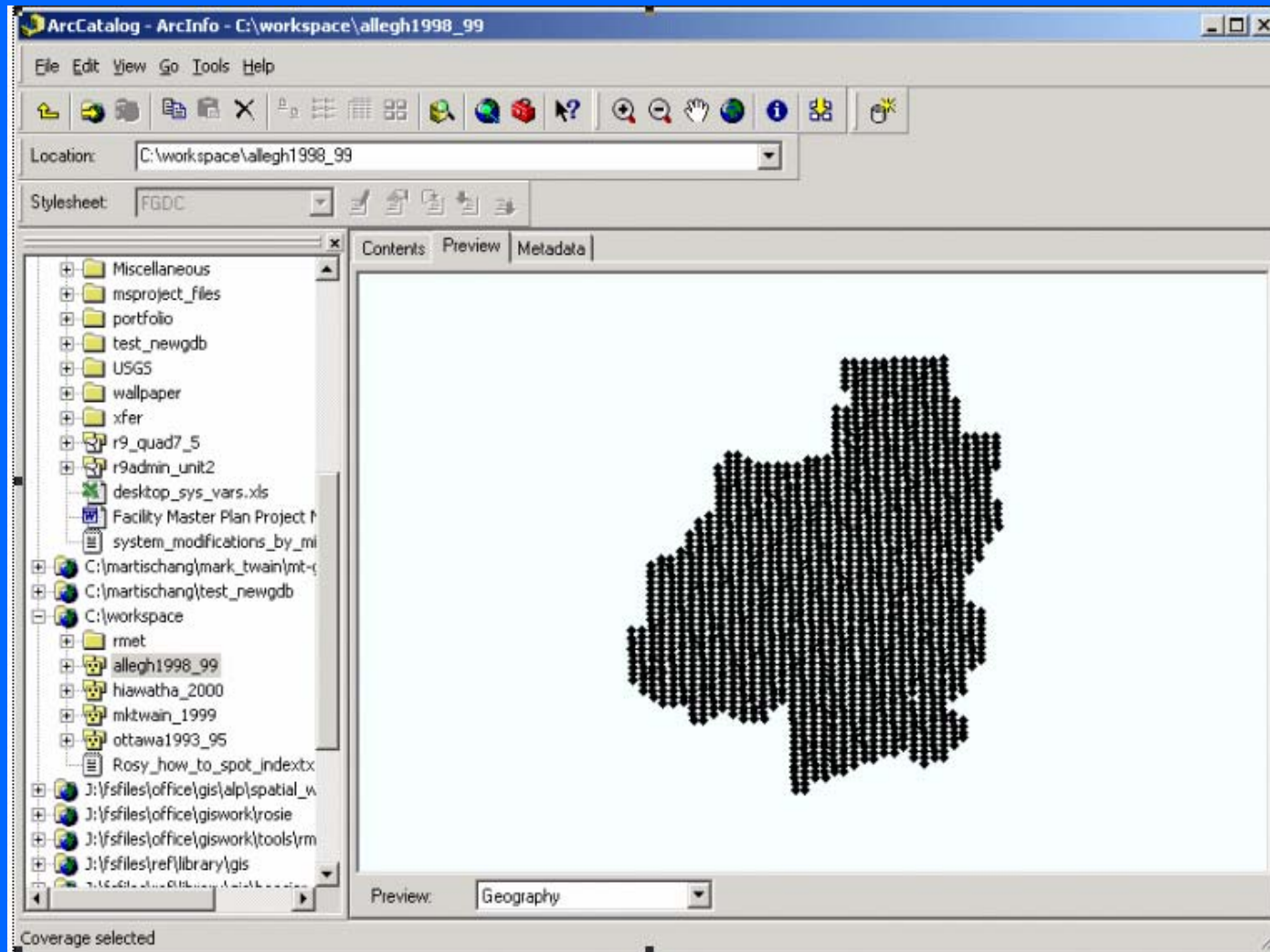
Verify presence of metadata file by listing the contents of the coverage directory

```
Directory of C:\WorkSpace\ALLEGH1998_99

11/21/2003  09:46a      <DIR>           .
11/21/2003  09:46a      <DIR>           ..
11/21/2003  09:46a                  32 dblbnd.adf
11/21/2003  09:46a                  80 dbltic.adf
11/21/2003  09:46a              96,588 lab.adf
11/21/2003  09:46a                 382 log
11/21/2003  09:46a           2,009,011 metadata.xml  <--metadata created using ArcCatalog
11/21/2003  09:46a                 260 par.adf
11/21/2003  09:46a             134,394 pat.adf
11/21/2003  09:46a                 192 prj.adf
11/21/2003  09:46a              24,076 xbn.adf
11/21/2003  09:46a               2,492 xbx.adf
              10 File(s)      2,267,507 bytes
               2 Dir(s)  44,234,631,168 bytes free
```
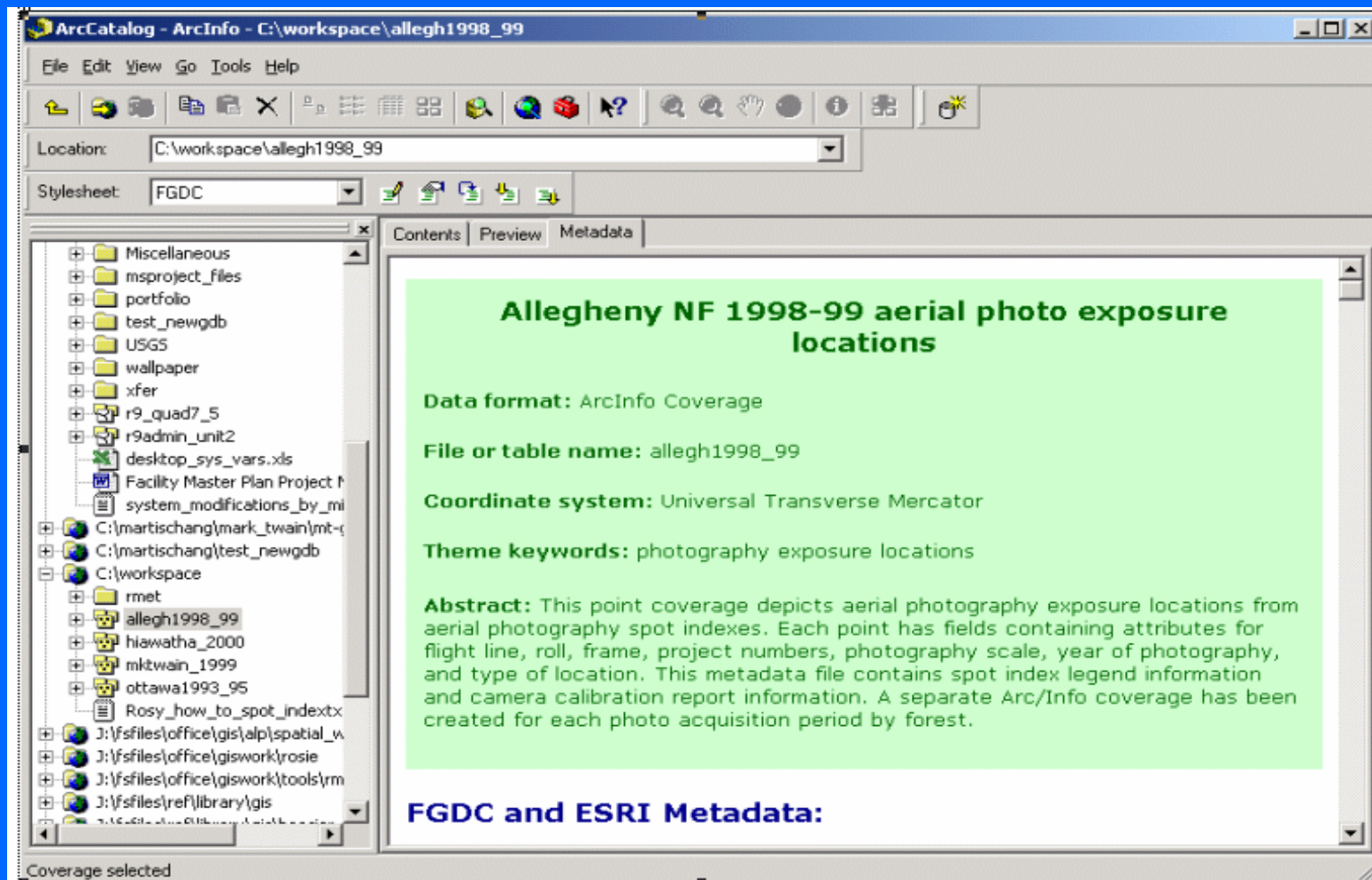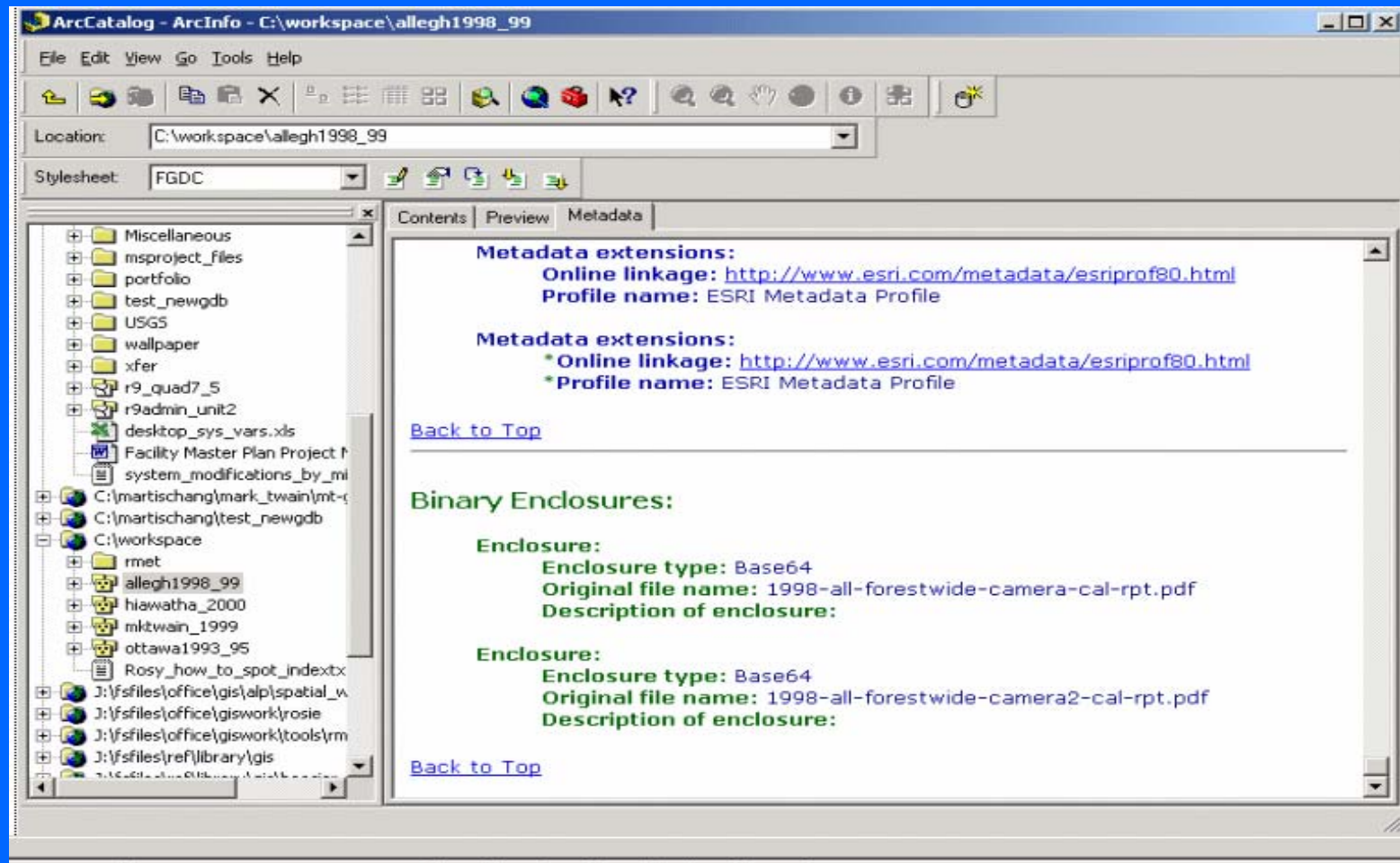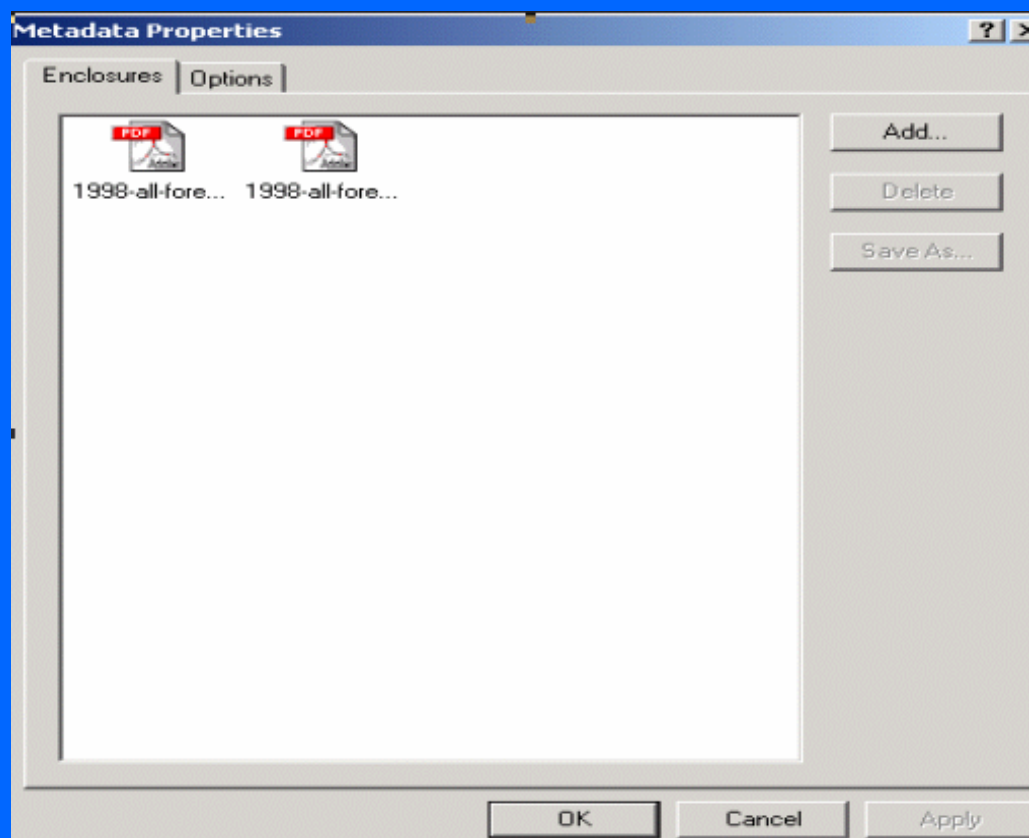
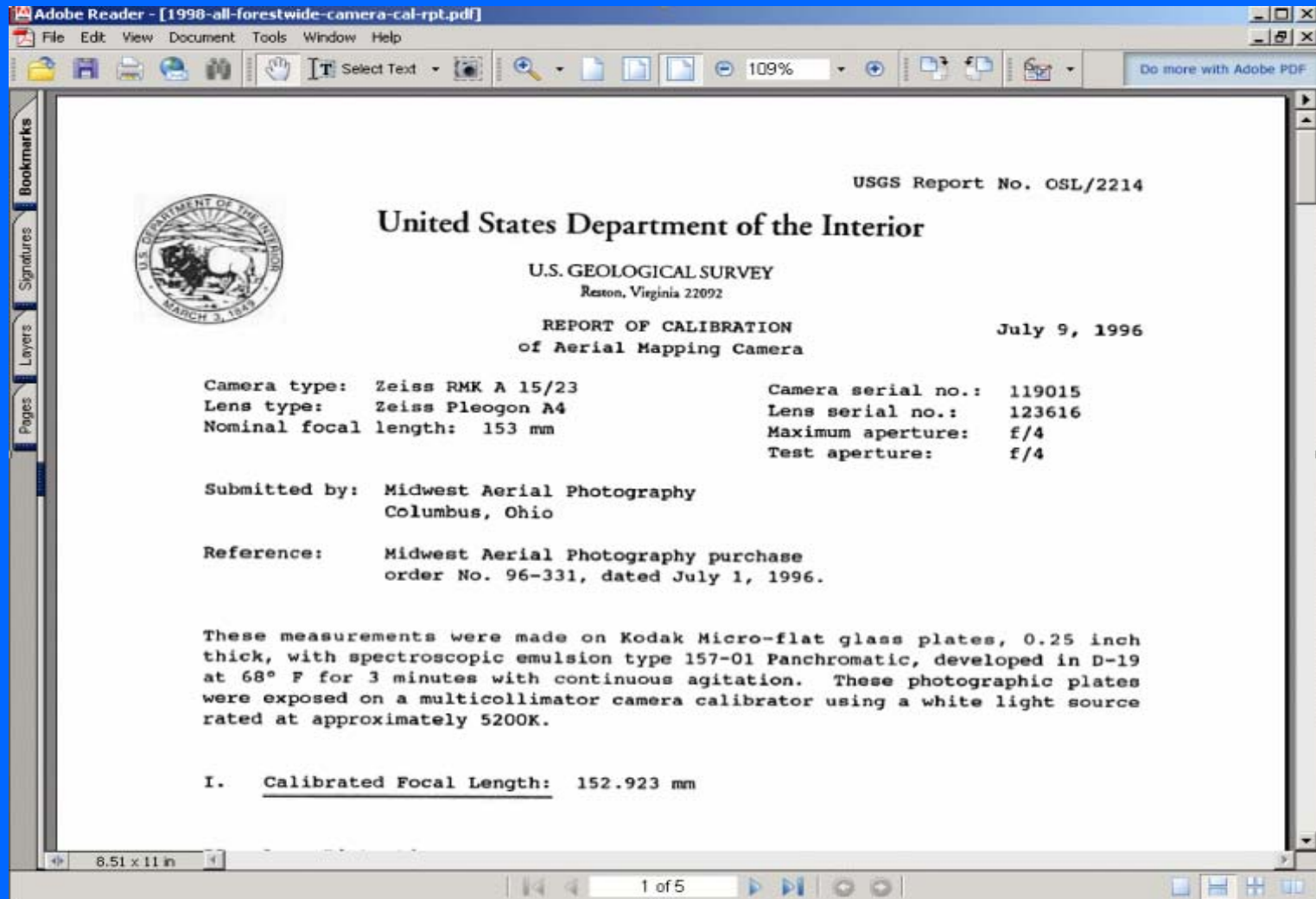# Preview the data file with ArcCatalog

Review FGDC metadata with "Metadata" tab

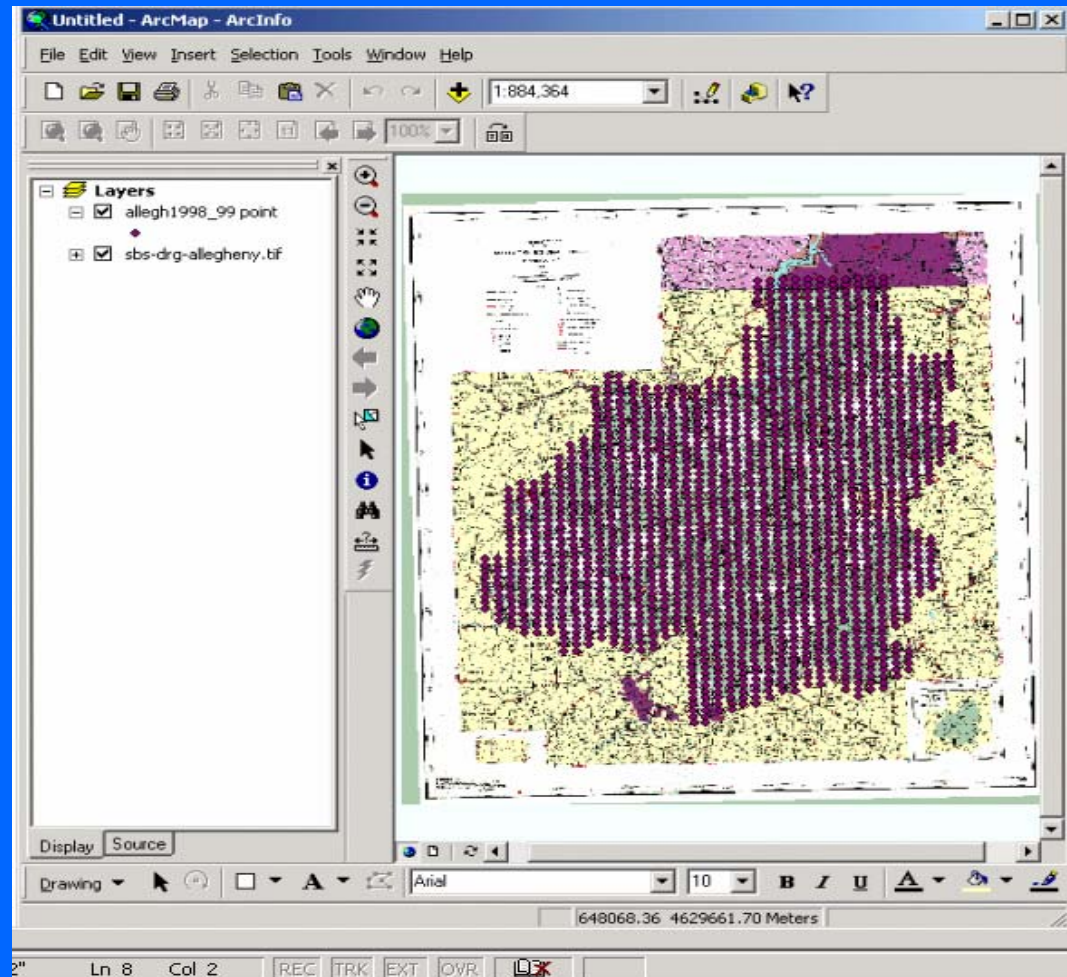# Determine if Camera Calibration Reports are enclosed

Listed metadata enclosures, found via "Metadata Properties" button

Review the Camera Calibration Report

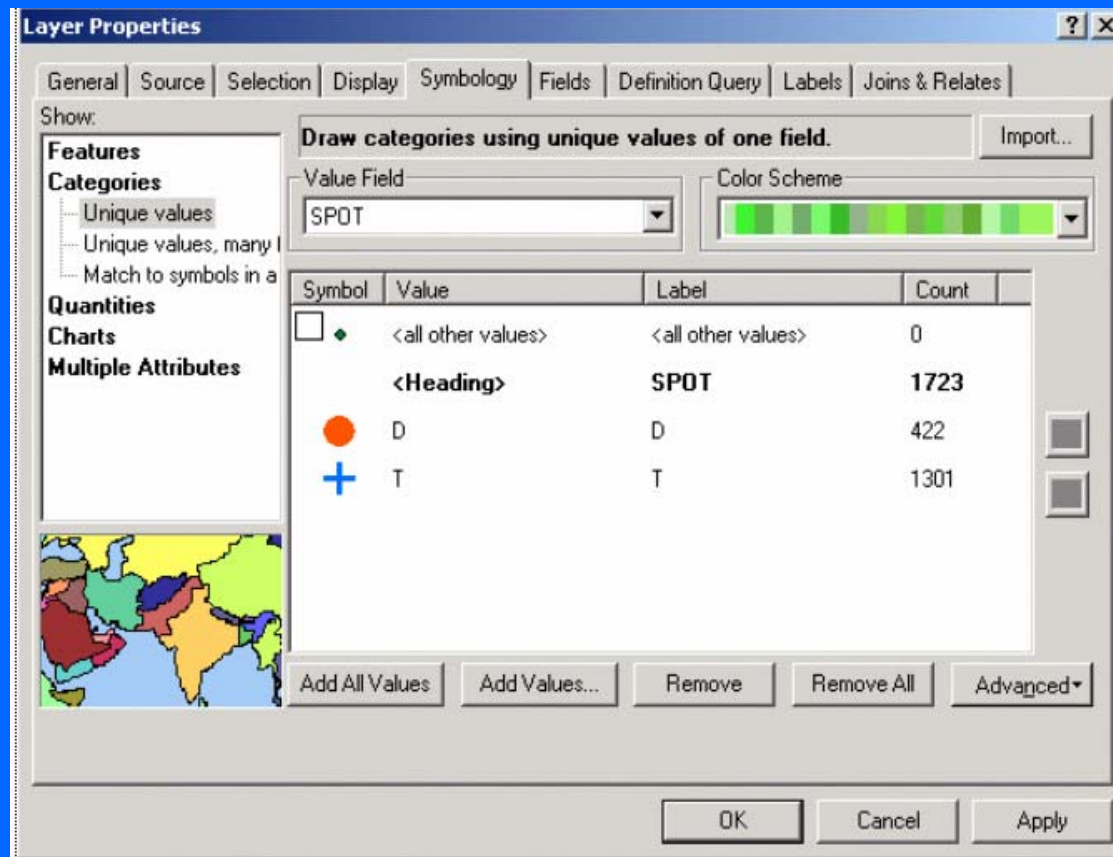# Using ArcMap, add imported spot index coverage to geo-referenced map
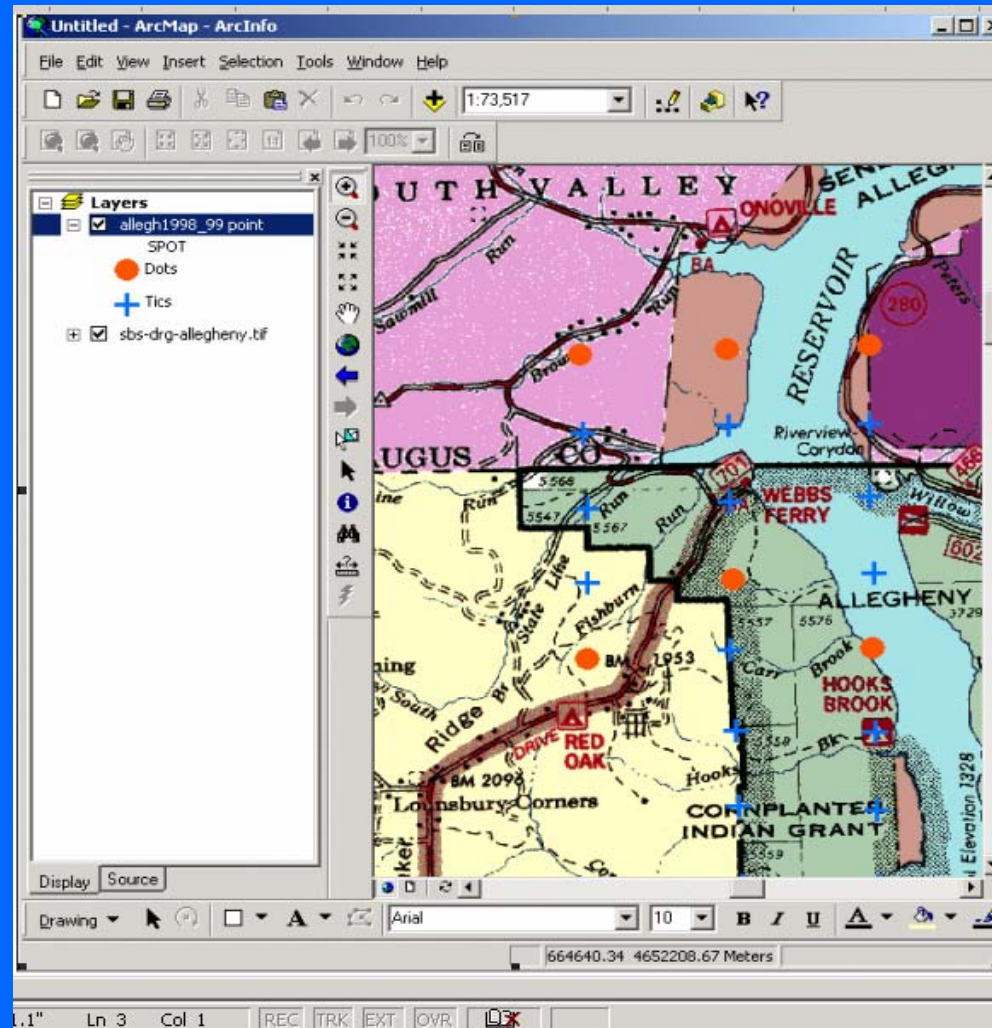
Examine the table structure and data content

Attributes of allegh1998_99 point

FID	Shape*	AREA	PERIMETE	ALLEGH1998_99#	ALLEGH1998_99-ID	FLT	ROLL	FRAME	LABEL	PF
37	Point	0	0	37	38	3	198	57	198-57	61:
38	Point	0	0	38	39	3	198	58	198-58	61:
39	Point	0	0	39	40	3	198	59	198-59	61:
40	Point	0	0	40	41	3	198	60	198-60	61:
41	Point	0	0	41	42	3	198	61	198-61	61:
42	Point	0	0	42	43	3	198	62	198-62	61:
43	Point	0	0	43	44	3	198	63	198-63	61:
44	Point	0	0	44	45	4	198	64	198-64	61:
45	Point	0	0	45	46	4	198	65	198-65	61:
46	Point	0	0	46	47	4	198	66	198-66	61:
47	Point	0	0	47	48	4	198	67	198-67	61:
48	Point	0	0	48	49	4	198	68	198-68	61:
49	Point	0	0	49	50	4	198	69	198-69	61:
50	Point	0	0	50	51	4	198	70	198-70	61:
51	Point	0	0	51	52	4	198	71	198-71	61:
52	Point	0	0	52	53	4	198	72	198-72	61:
53	Point	0	0	53	54	4	198	73	198-73	61:
54	Point	0	0	54	55	4	198	74	198-74	61:
55	Point	0	0	55	56	4	198	75	198-75	61:

Record: |◄| |◄| | 1 | |►| |►| Show: All | Selected   Records (0 out of 1723 Selected.)   Options ▾
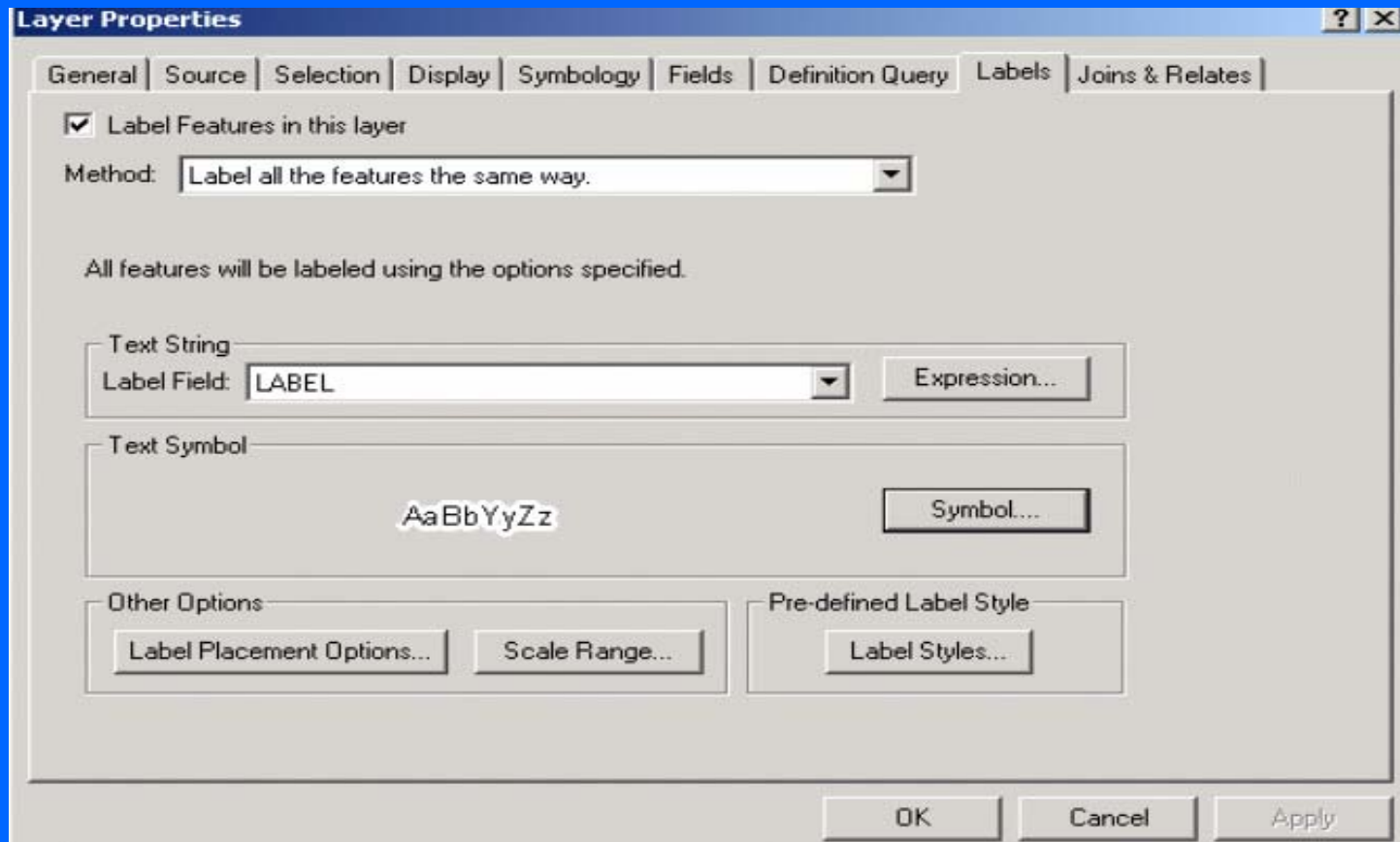
Use the "Layer Properties" window to symbolize the spots as "dots" and "ticks"

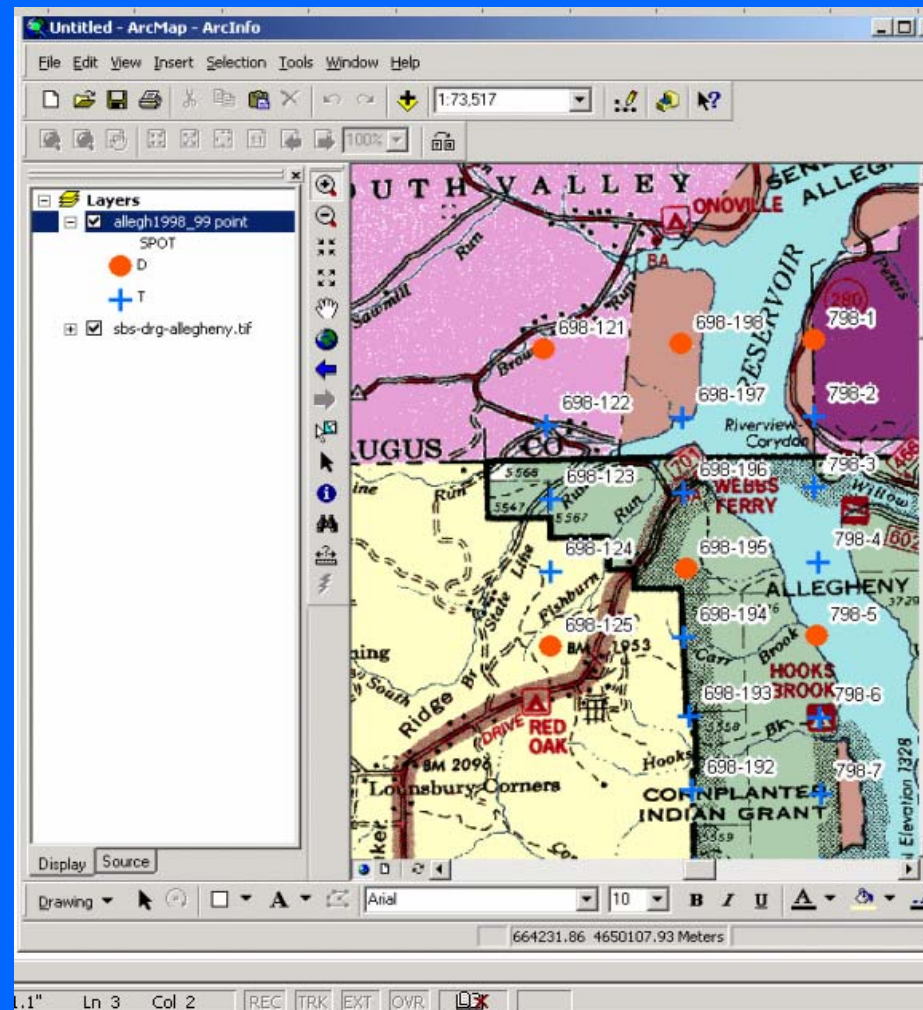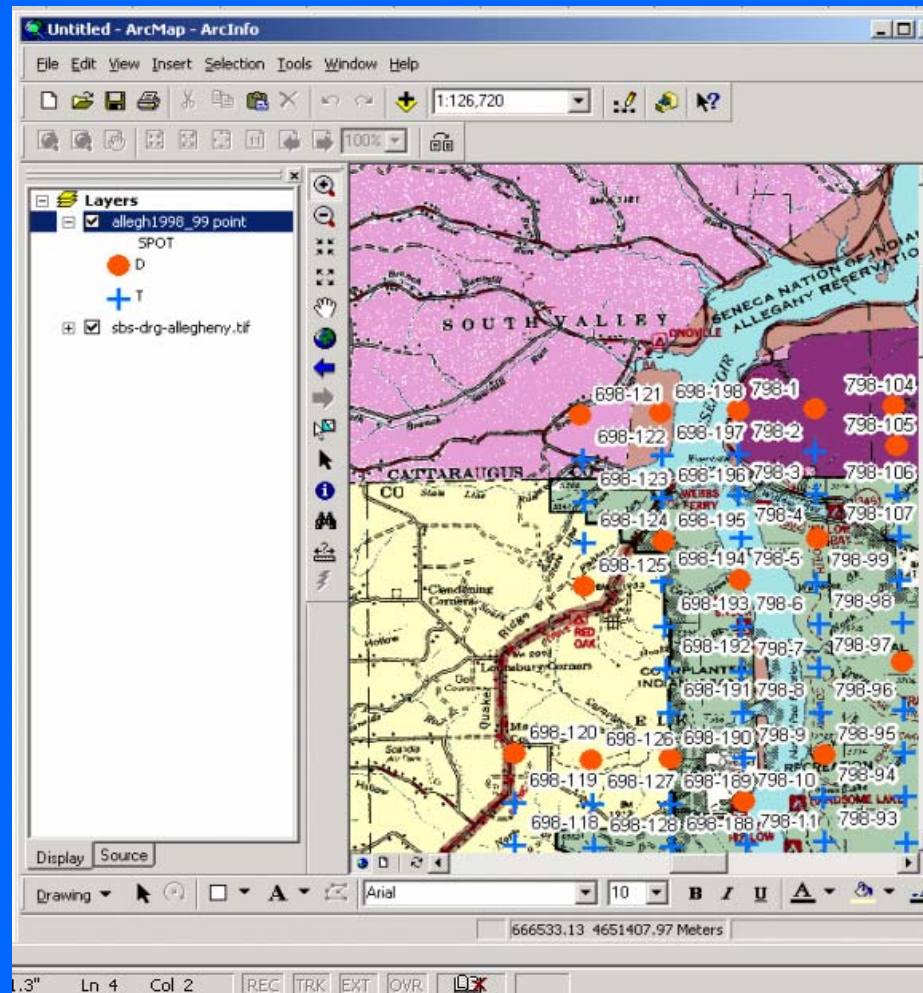# View map with digitized spots and tics over enlarged map background

Use "Layer Properties" window to label the spots with exposure numbers

Layer Properties   ? ✕

| General | Source | Selection | Display | Symbology | Fields | Definition Query | Labels | Joins & Relates |

☑ Label Features in this layer

Method: [Label all the features the same way. ▼]

All features will be labeled using the options specified.

Text String
Label Field: [LABEL ▼]   [Expression...]

Text Symbol

AaBbYyZz   [Symbol....]

Other Options
[Label Placement Options...] [Scale Range...]

Pre-defined Label Style
[Label Styles...]

[OK] [Cancel] [Apply]

Nearly finished map composition:

Is labeling acceptable at original or specified map scale (1 inch = 2 miles)?

Font size, label position, and halo mask size changed to get final spot index